American Journal of Hypertension

JOURNAL OF THE AMERICAN SOCIETY OF HYPERTENSION

CUMULATIVE CONTENTS

NUMBER 1, PART 1, JANUARY 1999

ORIGINAL CONTRIBUTIONS

1 **Prevention of Recurrent Pulmonary Edema in Patients With Bilateral Renovascular Disease Through Renal Artery Stent Placement**
Michael J. Bloch, David W. Trost, Thomas G. Pickering, Thomas A. Sos, and Phyllis August

8 **Effect of L-Arginine Infusion on Systemic and Renal Hemodynamics in Hypertensive Patients**
Yukihito Higashi, Tetsuya Oshima, Ryoji Ozono, Hideo Matsuura, Masayuki Kambe, and Goro Kajiyama

16 **Microalbuminuria and Hypertension in Nondiabetic Japanese Men**
Muneko Nishijo, Hideaki Nakagawa, Yuko Morikawa, Katuyuki Miura, Masaji Tabata, and Masao Ishizaki

21 **Angiotensin II Subtype-1 Receptor Antagonists Improve Hemodynamic and Renal Changes Without Affecting Glucose Metabolisms in Genetic Rat Model of Non–Insulin-Dependent Diabetes Mellitus**
Yoshio Uehara, Nobuhito Hirawa, Yukari Kawabata, Atsushi Numabe, Tomoko Gomi, Toshio Ikeda, and Masao Omata

28 **Comparison of the Effects of AT_1 Receptor Blockade and Angiotensin Converting Enzyme Inhibition on Atherosclerosis**
Susan Hope, Peter Brecher, and Aram V. Chobanian

35 **Determinants of Circadian Blood Pressure Rhythm in Essential Hypertension**
Takashi Uzu, Takashi Fujii, Masataka Nishimura, Setsuko Kuroda, Satoko Nakamura, Takashi Inenaga, and Genjiro Kimura

40 **Ca^{2+} Channels of the L-Type in Peripheral Blood Lymphocytes of Essential Hypertensives**
Alberto Ricci, Elena Bronzetti, Fabio Ferrante, Fiorenzo Mignini, Paolo Mulatero, Marina Schena, Franco Veglio, and Francesco Amenta

© 1999 by the American Journal of Hypertension, Ltd.
Published by Elsevier Science, Inc.

0895-7061/99/$20.00
PII S0895-7061(99)00245-9

47 **Effects of Isoflavonoids on Blood Pressure in Subjects With High-Normal Ambulatory Blood Pressure Levels: A Randomized Controlled Trial**
Jonathan M. Hodgson, Ian B. Puddey, Lawrence J. Beilin, Trevor A. Mori, Valerie Burke, Kevin D. Croft, and Penny B. Rogers

54 **Cold Acclimation-Induced Increase of Systolic Blood Pressure in Rats Is Associated With Volume Expansion**
Natalia I. Roukoyatkina, Svetlana I. Chefer, Joseph Rifkind, Ranjeet Ajmani, and Mark I. Talan

BRIEF COMMUNICATIONS

63 **Effects of Insufficient Sleep on Blood Pressure in Hypertensive Patients: A 24-h Study**
Paola Lusardi, Annalisa Zoppi, Paola Preti, Rosa Maria Pesce, Elena Piazza, and Roberto Fogari

69 **Urinary Sodium and Potassium Profile of Blacks and Whites in Relation to Education in Two Different Geographic Urban Areas**
Mukul C. Ganguli, Richard H. Grimm, Jr, Kenneth H. Svendsen, John M. Flack, Gregory A. Grandits, and Patricia J. Elmer, for the TOMHS Research Group

73 **Reduced bcl-2 Concentrations in Hypertensive Patients After Lisinopril or Nifedipine Administration**
Michele Buemi, Alessandro Allegra, Francesco Corica, Carmela Aloisi, Antonella Ruello, Maria Stella Giacobbe, Giuseppe Di Pasquale, Massimino Senatore, and Nicola Frisina

EDITORIAL

76 **Prospective, Double-blind, Seemingly Ignored Clinical Trials**
Barry J. Materson

LETTERS TO THE EDITOR

79 **Problems With Interpreting the Data in Kassler-Taub et al's Article Comparing Irbesartan and Losartan**
Ton Bunt

80 **Response to Bunt**
Kenneth B. Kassler-Taub

INVITED COMMENTS

82 **Therapeutic Implications of Calcium Intake in Hypertension: More Analyses, a Little Progress, and a Different Approach**
Lawrence M. Resnick

ORIGINAL CONTRIBUTION

84 **The Influence of Dietary and Nondietary Calcium Supplementation on Blood Pressure: An Updated Metaanalysis of Randomized Controlled Trials**
Lauren E. Griffith, Gordon H. Guyatt, Richard J. Cook, Heiner C. Bucher, and Deborah J. Cook

INVITED COMMENTS

93 **The "Calcium Antihypertension Theory"**
Francesco P. Cappuccio

96 **Dietary Calcium and Blood Pressure**
Tilman B. Drüeke

REVIEW

99 **The Role of Dietary Calcium in Hypertension: A Hierarchal Overview**
Lawrence M. Resnick

113 ERRATA

NUMBER 1, PART 2, JANUARY 1999

1S **Reducing Hypertension-Associated Cardiorenal Risk: The Role of Heart Rate, Left Ventricular Hypertrophy Regression, and Renoprotection**
Barry J. Materson

3S **The Physiological Determinants and Risk Correlations of Elevated Heart Rate**
Paolo Palatini and Stevo Julius

9S **Effects of Antihypertensive Single-Drug Therapy on Heart Rate**
Barry J. Materson, Domenic J. Reda, and David W. Williams, for the Department of Veterans Affairs Cooperative Study Group on Antihypertensive Agents

12S **Clinical Trials of Single-Drug Therapy for the Cardiac Effects of Hypertension**
John S. Gottdiener

19S **Renoprotective Effects of Antihypertensive Drugs**
Richard A. Preston

NUMBER 2, PART 1, FEBRUARY 1999

ORIGINAL CONTRIBUTIONS

115 **Platelet Aggregation in Young Men With Contrasting Predisposition to High Blood Pressure**
Mark E.C. Dockrell, Brian R. Walker, Joseph P. Noon, Graham C.M. Watt, Brent C. Williams, and David J. Webb

120 **The Relationship Between Ca^{2+}-ATPase and Freely Exchangeable Ca^{2+} in the Dense Tubules: A Study in Platelets From Women**
Makoto Horiguchi, Masayuki Kimura, Jonathan Lytton, Estaban Poch, and Abraham Aviv

128 **Changes in Plasma, Erythrocyte, and Platelet Magnesium Levels in Normotensive and Hypertensive Obese Subjects During Oral Glucose Tolerance Test**
Francesco Corica, Alessandro Allegra, Riccardo Ientile, Michele Buemi, Andrea Corsonello, Salvatore Bonanzinga, Salvatore Macaione, and Domenico Ceruso

137 **Noninvasive Detection of Vascular Dysfunction in Alcoholic Patients**
Giuseppe Maiorano, Francesco Bartolomucci, Vincenzo Contursi, Francesco S. Minenna, Rosa Di Mise, Angela Palasciano, Bartolo Allegrini, Michele Amoruso, and Michaela Kozàkovà

145 **Impaired Adaptation of Cardiopulmonary Receptors to Western Diet in Normotensive Black Immigrants**
Pietro Amedeo Modesti, Mohamed Isse Hagi, Vanni Corsoni, Alessandro Ferraro, Emilio Di Vincenzo, Simone Vanni, and Gian Gastone Neri Serneri

151 **Effects of Age and Hypertension on Cardiac Responses to the α_1-Agonist Phenylephrine in Humans**
Michel White, Anne Fourney, Etel Mikes, and Frans H.H. Leenen

159 **Ambulatory Blood Pressure Nondipping Status in Salt-Sensitive and Salt-Resistant Black Adolescents**
Dawn K. Wilson, Domenic A. Sica, and Sydney B. Miller

166 **The Role of Adrenomedullin**
Christopher J. Charles, John G. Lainchbury, Lynley K. Lewis, Miriam T. Rademaker, A. Mark Richards, Timothy G. Yandle, and M. Gary Nicholls

174 **Reduction of Myocardial Infarct Size by Inhibition of Inducible Nitric Oxide Synthase**
Ding Wang, Xiao-Ping Yang, Yun-He Liu, Oscar A. Carretero, and Margot C. LaPointe

183 **A High Sucrose, High Linoleic Acid Diet Potentiates Hypertension in the Dahl Salt Sensitive Rat**
Hong Yen Zhang, Sreenivas Reddy, and Theodore A. Kotchen

188 **V_2-Receptor-Mediated Relaxation of Human Renal Arteries in Response to Desmopressin**
Pascual Medina, Gloria Segarra, José M. Vila, Pascual Chuan, Cristina Domenech, and Salvador Lluch

194 **Antihypertensive Monotherapy With Nisoldipine CC Is Superior to Enalapril in Black Patients With Severe Hypertension**
Ivo Radevski, Daniel Skudicky, Geoffrey Candy, Sewela Sathekge, Victor Strugo, and Pinhas Sareli

204 **Blood Pressure and the Risk of Complex Arrhythmia in Renal Insufficiency, Hemodialysis, and Renal Transplant Patients**
José Jayme Galvão de Lima, Marcelo Luis Campos Vieira, Heno Ferreira Lopes, César José Gruppi, Caio Jorge Medeiros, Luis Estevan Ianhez, and Eduardo M. Krieger

209 **Hemodynamic and Renal Effects of Indomethacin in Losartan-Treated Hypertensive Individuals**
Margrethe Ege Olsen, Troels Thomsen, Christian Hassager, Hans Ibsen, and Harriet Dige-Petersen

217 **Fosinopril Decreases Levels of Soluble Vascular Cell Adhesion Molecule-1 in Borderline Hypertensive Type II Diabetic Patients With Microalbuminuria**
Slobodan Gasic, Oswald F. Wagner, Peter Fasching, Christine Ludwig, Mario Veitl, Stylianos Kapiotis, and Bernd Jilma

BRIEF COMMUNICATIONS

223 **White Coat Hypertension Detected During Screening of Male Adolescent Athletes**
Evangelia Kouidi, Anna Fahadidou-Tsiligiroglou, Elias Tassoulas, Asterios Deligiannis, and Andrew Coats

227 **Marital Cohesion and Ambulatory Blood Pressure in Early Hypertension**
Brian Baker, Karin Helmers, Brian O'Kelly, Ian Sakinofsky, Alan Abelsohn, and Sheldon Tobe

231 **Ambulatory Measurement of the Timing of Korotkoff Sounds in a Group of Normal Subjects: Influence of Age and Height**
Philippe Gosse, Véronique Jullien, Philippe Lemetayer, Philippe Jarnier, and Jacques Clementy

236 **Dose-Dependent Biphasic Effect of Ethanol on 24-h Blood Pressure in Normotensive Subjects**
Guido Aranha Rosito, Flávio Danni Fuchs, and Bruce B. Duncan

LETTER TO THE EDITOR

241 **Is Nocturnal Blood Pressure Dipping Reproducible**
Kazuomi Kario, Joseph E. Schwartz, Kazuyuki Shimada, and Thomas G. Pickering

EDITORIAL

242 **Hypertension Specialists: Ready or Not, Here We Come**
Lawrence R. Krakoff, Chair

244 ERRATUM

NUMBER 2, PART 2, FEBRUARY 1999

33S **A Chronotherapeutic Approach to the Management of High-Risk Patients With Hypertension/Ischemic Heart Disease: Introduction**
Henry R. Black

35S **Circadian Variation in Cardiovascular Events**
James E. Muller

43S **Circadian Variation in Blood Pressure: Implications for the Elderly Patient**
William J. Elliott

50S **Heart Rate and the Rate-Pressure Product as Determinants of Cardiovascular Risk in Patients With Hypertension**
William B. White

56S **Management of the Hypertensive Patient With Coronary Artery Disease**
Suzanne Oparil

NUMBER 3, MARCH 1999

ORIGINAL CONTRIBUTIONS

245 **Isolated Clinic Hypertension Is Not an Innocent Phenomenon: Effect on the Carotid Artery Structure**
Nikos Zakopoulos, Christos Papamichael, Helen Papaconstantinou, Paul A. Dubbins, Christopher J. Burrell, John Lekakis, Stamatios Stamatelopoulos, and Spyridon Moulopoulos

251 **Frequency and Determinants of White Coat Hypertension in Mild to Moderate Hypertension: A Primary Care-Based Study**
María A. Martínez, Juan García-Puig, Juan C. Martín, Pilar Guallar-Castillón, Alvaro Aguirre de Cárcer, Alberto Torre, Eduardo Armada, Armando Nevado, Rosario S. Madero, on behalf of the Monitorización Ambulatoria de la Presión Arterial (MAPA)-Area 5 Working Group

260 **Family History of Essential Hypertension Versus Obesity as Risk Factors for Hypertension in Adolescents**
Rosa B. Simsolo, Miriam M. Romo, Laura Rabinovich, Mariela Bonanno, and Beatriz Grunfeld

264 **Familial Aggregation of Resting Blood Pressure and Heart Rate in a Sedentary Population: The HERITAGE Family Study**
Ping An, Treva Rice, Jacques Gagnon, Ingrid B. Borecki, Louis Pérusse, Arthur S. Leon, James S. Skinner, Jack H. Wilmore, Claude Bouchard, and D.C. Rao

271 **The Prevalence and Etiology of Impotence in 101 Male Hypertensive Outpatients**
Jesper Jensen, Axel Lendorf, Hans Stimpel, Jesper Frost, Hans Ibsen, and Palle Rosenkilde

276 **Higher Cholesterol and Insulin Levels in Pregnancy Are Associated With Increased Risk for Pregnancy-Induced Hypertension**
Caren G. Solomon, Judith S. Carroll, Kyoko Okamura, Steven W. Graves, and Ellen W. Seely

283 **Can Insulin Action Induce Myocardial Texture Alterations in Essential Hypertension?**
Vitantonio Di Bello, Ottavio Giampietro, Roberto Pedrinelli, Elena Matteucci, Davide Giorgi, Alessio Bertini, Massimiliano Bianchi, Marco Ferdeghini, Elisabetta Boldrini, Giulia Dell'Omo, Marco Paterni, and Costantino Giusti

291 **Angiotensin I Converting Enzyme Gene Polymorphism and Insulin Resistance in Patients With Angina Pectoris**
Takanobu Takezako, Keijiro Saku, Bo Zhang, Jiafu Ou, Huai Bai, Kimiko Imai, Shiro Jimi, Kazuyuki Shirai, and Kikuo Arakawa

298 **A Double Blind Comparison of the Effects of Amlodipine and Enalapril on Insulin Sensitivity in Hypertensive Patients**
Dan Lender, Carlos Arauz-Pacheco, Laura Breen, Pablo Mora-Mora, Luis C. Ramirez, and Philip Raskin

304 **Polymorphisms of the Endothelin-A and -B Receptor Genes in Relation to Blood Pressure and Myocardial Infarction: The Etude Cas-Témoins sur l'Infarctus du Myocarde (ECTIM) Study**
Viviane Nicaud, Odette Poirier, Isabelle Behague, Stefan-Martin Herrmann, Christine Mallet, Alain Troesch, Jérôme Bouyer, Alun Evans, Gérald Luc, Jean-Bernard Ruidavets, Dominique Arveiler, Annie Bingham, Laurence Tiret, and François Cambien

BRIEF COMMUNICATION

311 **Central Vasopressin Is Modulated by Chronic Blockade of the Renin-Angiotensin System in Experimental Left Ventricular Hypertrophy**
Frank Muders, Dietmar Elsner, Heribert Schunkert, Günter A.J. Riegger, and Miklos Palkovits

REVIEW

315 **Abnormalities of Membrane Function and Lipid Metabolism in Hypertension: A Review**
Josef Zicha, Jaroslav Kuneš, and Marie-Aude Devynck

LETTER TO THE EDITOR

332 **Relationship Between Vitamin D_3 and Peripheral Circulation in Moderate Essential Arterial Hypertension**
Daniel Duprez, Marc De Buyzere, Tine De Backer, and Denis Clement

NUMBER 4, PART 1, APRIL 1999

ORIGINAL CONTRIBUTIONS

333 **Treatment of Hypertension in Patients With Comorbidities: Results From the Study of Hypertensive Prescribing Practices (SHyPP)**
Shilpa S. Mehta, Christopher S. Wilcox, and Kevin A. Schulman

341 **The Effect of Isosorbide Dinitrate on Placental Blood Flow and Maternal Blood Pressure in Women With Pregnancy Induced Hypertension**
Israel Thaler, Amnon Amit, Daniel Kamil, and Joseph Itskovitz-Eldor

348 **The State and Responsiveness of the Renin-Angiotensin-Aldosterone System in Patients With Type II Diabetes Mellitus**
Deborah A. Price, Jose M.F., De'Oliveira, Naomi D.L. Fisher, Gordon H. Williams, and Norman K. Hollenberg

356 **Blunted Nocturnal Fall in Blood Pressure and Oxidative Stress in Men and Women With Essential Hypertension**
Sante D. Pierdomenico, Fabrizio Costantini, Anna Bucci, Domenico De Cesare, Tonino Bucciarelli, Franco Cuccurullo, and Andrea Mezzetti

364 **Na-K-ATPase Inhibitor Dissociated From Hypertension-Associated Plasma Protein**
Elmar W.J. Weiler, Farhad Khalil-Manesh, Harvey C. Gonick, Bruce A. Prins, Ralph E. Purdy, and Dilip K. Sensharma

374 **Use of Electronic Pill Boxes to Assess Risk of Poor Treatment Compliance: Results of a Large-Scale Trial**
Laurent Vaur, Bernard Vaisse, Nathalie Genes, François Elkik, Catherine Legrand, and Louis Poggi

381 **Effect of Angiotensin II Receptor Antagonism on Vascular Hypertrophy and Aortic Impedance in Abdominal Aortic-Banded Rat**
Masakazu Obayashi, Masafumi Yano, Michihiro Kohno, Shigeki Kobayashi, Takeshi Yamamoto, Tomoko Ohkusa, Mitsuaki Konishi, and Masunori Matsuzaki

388 **Vasoactive Horomones Induce Nitric Oxide Synthase mRNA Expression and Nitric Oxide Production in Human Endothelial Cells and Monocytes**
Marina Schena, Paolo Mulatero, Domenica Schiavone, Giulio Mengozzi, Luisa Tesio, Livio Chiandussi, and Franco Veglio

398 **Cytochrome P-450 Arachidonate Metabolite Inhibition Improves Renal Function in Lyon Hypertensive Rats**
Isabelle Messer-Létienne, Nicole Bernard, Richard J. Roman, Jean Sassard, and Daniel Benzoni

405 **Failure of Acute Hyperinsulinemia to Alter Blood Pressure Is Not Due to Baroreceptor Feedback**
Joyce M. Richey, Renee A. Poulin, Thomas A. Buchanan, Edward Galperin, Donna M. Moore, and Richard N. Bergman

414 **A Comparison of the Angiotensin II Antagonists Valsartan and Losartan in the Treatment of Essential Hypertension**
Thomas Hedner, Suzanne Oparil, Knud Rasmussen, Alessandro Rapelli, Marjorie Gatlin, Patrizia Kobi, John Sullivan, and Pascale Oddou-Stock

BRIEF COMMUNICATIONS

418 **Angiotensin II Stimulates Left Ventricular Hypertrophy in Hypertensive Patients Independently of Blood Pressure**
Johannes Jacobi, Markus P. Schlaich, Christian Delles, Hans P. Schobel, and Roland E. Schmieder

423 **Regulation of Blood Pressure During Long-Term Ouabain Infusion in Long-Evans Rats**
Jingli Wang, Aldo Tempini, Bruno Schnyder, and Jean-Pierre Montani

REVIEW

427 **Telomeres and Essential Hypertension**
Abraham Aviv and Hana Aviv

LETTERS TO THE EDITOR

433 **Na,Li-Countertransport and Ethnicity**
T.C. Hardman and A. Wierzbicki

434 **Na,Li-Countertransport and Ethnicity: Reply**
Pasquale Strazzullo and Alfonso Siani

NUMBER 4, PART 2, APRIL 1999

IX ASH XIV PROGRAM

XVII SPECIAL SYMPOSIA

ORAL SESSIONS

1A **Theme I: The Endothelium and Smooth Muscle in Hypertension**
3A **Theme II: Is It Blood Pressure Reduction or the ACEI That Is Essential for Full Renal Protection?**
4A **Theme III: Genetic Epidemiology/Roger Williams Memorial Session**
6A **Hypertension Mechanisms**
8A **Theme I: The Cell Cycle Signal Transduction and Vascular Disease**
10A **Theme II: Hypertension, Drugs, Cancer, and Clinical Issues**
12A **Theme III: New Risk Factors in Cardiovascular Disease**
14A **Angiotensin Mechanisms**
16A **Theme I: Genetic Animal Models in Hypertension: Where Do Things Stand and Where Are They Going?**
17A **Theme III: Joint Symposium of the American Society of Hypertension and the International Society on Hypertension in Blacks**
19A **Theme II: New Predictors of Risk**
20A **Theme III: Can We Prevent Hypertension?**
22A **Basic Science**
24A **Theme I: Angiotensin Activation Mechanisms in Hypertension**
25A **Theme II: Debate: Lifestyle Modification Should Be the Only Therapy for Up to 1 Year in All Low-risk Hypertensives**
26A **Theme III: Does the FDA Approval Process for Antihypertensive Agents Assure Efficacy, Safety, and Timeliness?**
28A **Clinical Trials**
30A **Theme I: Kidney Dysfunction as a Cause and a Consequence of Hypertension**
31A **Theme II: Debate: Ambulatory Blood Pressure Monitoring Should Be Routine in Clinical Management**
32A **Theme III: Obesity and Hypertension**
34A **Theme I: Cardiac Hypertrophy and Remodeling**
36A **Theme II: Debate: AII Receptor Blockers Should Replace ACE Inhibitors**
37A **Theme III: Are Hypertension Guidelines Useful?**
38A **Secondary Hypertension**
40A **Theme I: Clinical and Experimental Role of Nitric Oxide**
41A **Theme II: Debate: Should the JNC-VI Recommendations for Initial Therapy With Diuretics Be Changed?**
42A **Theme III: Are the Results of Clinical Trials Useful in Practice?**

POSTERS

44A **Genetics/Gene Therapy**
47A **Transgenic Animals**
48A **Molecular Biology**
49A **Endothelial Factors (Endothelin, Nitric Oxide, Etc)**
58A **Vasoactive Hormones/Autacoids**
62A **Cell Biology/Growth Factors**
63A **Cell Membrane Transportation/Ion Channels**
66A **Inflammation/Adhesion Molecules**
67A **Obesity, Insulin Resistance, and Diabetes**

76A **End Organ Damage**
85A **Epidemiology**
97A **Renin-Angiotensin-Aldosterone**
102A **Kidney and Hypertension**
107A **Neural Mechanisms and Transmitters**
111A **Antihypertensive Drugs**
139A **Clinical Trials**
147A **Blood Pressure Measurement (Including ABPM)**
169A **Arterial Structure and Compliance**
177A **Vascular Biology**
181A **Cardiovascular Development**
184A **Cardiac Structure and Function**
194A **Heart Failure**
197A **Cerebrovascular Disease/Stroke**
200A **Coagulation/Thrombosis**
202A **Secondary Hypertension**
205A **Experimental Hypertension**
208A **Nutrition and Electrolytes**
210A **Prevention of Hypertension**

211A FACULTY ABSTRACTS

219A SPECIAL SYMPOSIA

227A AUTHOR INDEX

NUMBER 5, MAY 1999

ORIGINAL CONTRIBUTIONS

437 **Ethnic Differences in the Identification of Left Ventricular Hypertrophy in the Hypertensive Patient**
J. Neil Chapman, Jamil Mayet, C. Lan Chang, Rodney A. Foale, Simon A. McG. Thom, and Neil R. Poulter

443 **Left Ventricular Mass, Carotid Wall Thickness, and Angiotensinogen Gene Polymorphism in Patients With Hypertension**
Jing-Ren Jeng

451 **β-Adrenergic Receptor Blockade as a Therapeutic Approach for Suppressing the Renin-Angiotensin-Aldosterone System in Normotensive and Hypertensive Subjects**
Jon D. Blumenfeld, Jean E. Sealey, Samuel J. Mann, Alexander Bragat, Rosemerie Marion, Mark S. Pecker, Julio Sotelo, Phyllis August, Thomas G. Pickering, and John H. Laragh

460 **Enhanced Blood Pressure Response to Mild Sodium Reduction in Subjects With the 235T Variant of the Angiotensinogen Gene**
Steven C. Hunt, Johanna M. Geleijnse, Lily L. Wu, Jacqueline C.M. Witteman, Roger R. Williams, and Diederick E. Grobbee

467 **Adventitia as a Source of Inducible Nitric Oxide Synthase in the Rat Aorta**
Hui Zhang, Yue Du, Richard A. Cohen, Aram V. Chobanian, and Peter Brecher

476 **Higher Level of Plasma Nitric Oxide in Spontaneously Hypertensive Rats**
Chin-Chen Wu and Mao-Hsiung Yen

483 **Benidipine Stimulates Nitric Oxide Synthase and Improves Coronary Circulation in Hypertensive Rats**
Naohiko Kobayashi, Kiminari Kobayashi, Kazuyoshi Hara, Teruo Higashi, Hatsuko Yanaka, Shigeru Yagi, and Hiroaki Matsuoka

492 **Chronic Aminoguanidine Attenuates Renal Dysfunction and Injury in Aging Rats**
Jane F. Reckelhoff, Bettye Sue Hennington, Vijaya Kanji, Lorraine C. Racusen, Ann Marie Schmidt, Shi Du Yan, Jason Morrow, L. Jackson Roberts II, and Abdulla K. Salahudeen

499 **Effect of Luminal Angiotensin II Receptor Antagonists on Proximal Tubule Transport**
Albert Quan and Michel Baum

504 **Acute and Chronic Blood Pressure Response to Recurrent Acoustic Arousal in Rats**
Gang Bao, Naira Metreveli, and Eugene C. Fletcher

511 **Adrenocortical Activity in the Newborn Spontaneously Hypertensive Rat**
Maureen P. Malee and Ke-Ying Wu

BRIEF COMMUNICATIONS

519 **Effects of Interferon on Circadian Changes in Blood Pressure and Heart Rate Variability in Patients With Chronic Hepatitis**
Masayo Fukuhara, Kiyoshi Matsumura, Susumu Ohmori, Toshiro Yanai, Yoriaki Tsubota, Isao Abe, and Masatoshi Fujishima

524 ***Hpa*II Polymorphism in the Atrial Natriuretic Peptide Gene and Hypertension**
Bernard M.Y. Cheung, Raymond Leung, Sammy Shiu, Kathryn C.B. Tan, Chu-Pak Lau, and Cyrus R. Kumana

528 **Low Dose Bendrofluazide (1.25 mg) Effectively Lowers Blood Pressure Over 24 h: Results of a Randomized, Double-Blind, Placebo-Controlled Crossover Study**
M. Ivan Wiggam, Patrick M. Bell, Brian Sheridan, Anona Walmsley, and A. Brew Atkinson

532 **Lysophosphatidic Acid Stimulates Protein Kinase C Isoforms α, β, ε, and ζ in a Pertussis Toxin Sensitive Pathway in Vascular Smooth Muscle Cells**
Stefan Seewald, Udo Schmitz, Claudia Seul, Yon Ko, Agapios Sachinidis, and Hans Vetter

LETTERS TO THE EDITOR

538 **Self-Reported Blood Pressure Reliability Problems Exaggerated**
Norman M. Kaplan

538 **Response to Dr. Kaplan Regarding Self-Reported Blood Pressure Reliability**
T. Mengden

539 **More on Reliability of Self-Measured Blood Pressure**
Samuel J. Mann

540 **Reply to Kaplan Regarding Self-Reported Blood Pressure Reliability From the Editor**
Lawrence R. Krakoff, Deputy Editor

NUMBER 6, JUNE 1999

ORIGINAL CONTRIBUTIONS

541 **Atenolol and Fetal Growth in Pregnancies Complicated by Hypertension**
Charalampos Lydakis, Gregory Y.H. Lip, Michèle Beevers, and D. Gareth Beevers

548 **A Clinical Trial to Improve High Blood Pressure Care in Young Urban Black Men: Recruitment, Follow-up, and Outcomes**
Martha N. Hill, Lee R. Bone, Sterling C. Hilton, Mary C. Roary, Gabor D. Kelen, and David M. Levine

555 **The Renin-Angiotensin System and Blood Pressure: Differences Between Blacks and Whites**
Jiang He, Michael J. Klag, Lawrence J. Appel, Jeanne Charleston, and Paul K. Whelton

563 **Sustained Antihypertensive Actions of a Dual Angiotensin-Converting Enzyme Neutral Endopeptidase Inhibitor, Sampatrilat, in Black Hypertensive Subjects**
Gavin R. Norton, Angela J. Woodiwiss, Craig Hartford, Boris Trifunovic, Shirley Middlemost, Andrew Lee, and Michael J. Allen

572 **Altered Sympathetic and Vagal Modulations of the Cardiovascular System in Patients With Pheochromocytoma: Their Relations to Orthostatic Hypotension**
Masanori Munakata, Akiko Aihara, Yutaka Imai, Takao Noshiro, Sadayoshi Ito, and Kaoru Yoshinaga

581 **Metabolic, Hemodynamic, and Cardiac Effects of Captopril in Young, Spontaneously Hypertensive Rats**
A.L.M. Swislocki, T.L. Kinney LaPier, D.T. Khuu, K.Y. Fann, M. Tait, and K.J. Rodnick

590 **Sustained Contraction to Angiotensin II and Impaired Ca^{2+}-Sequestration in the Smooth Muscle of Stroke-Prone Spontaneously Hypertensive Rats**
Hideya Mizuno, Masahiko Ikeda, Mitsuhiro Harada, Takeshi Onda, and Takako Tomita

596 **Alteration of Muscle Fiber Composition Linking to Insulin Resistance and Hypertension in Fructose-Fed Rats**
Katsuhiro Higashiura, Nobuyuki Ura, Tamaki Takada, Jun Agata, Hideaki Yoshida, Yoshinori Miyazaki, and Kazuaki Shimamoto

603 **Genetic Susceptibility of the Donor Kidney Contributes to the Development of Renal Damage After Syngeneic Transplantation**
E.A. Kouwenhoven, R.P.E. van Dokkum, R.L. Marquet, U.W. Heemann, R.W.F. de Bruin, J.N.M. IJzermans, and A.P. Provoost

611 **Effects of Digoxin-Specific Antibody Fab Fragment (Digibind) on Blood Pressure and Renal Water–Sodium Metabolism in 5/6 Reduced Renal Mass Hypertensive Rats**
Jun-Ichi Kaide, Nobuyuki Ura, Takaaki Torii, Motoya Nakagawa, Tamaki Takada, and Kazuaki Shimamoto

620 **Effects on Regional Renal Blood Flow When Unclipping a Two-Kidney, One-Clip Hypertensive Wistar Rat During Renal Nerve Stimulation**
Jonas Rudenstam, Göran Karlström, Gunnar Göthberg, and Göran Bergström

BRIEF COMMUNICATIONS

628 **Association Between Resting Heart Rate and Hypertension Treatment in a General Population**
Jean Ferrières and Jean-Bernard Ruidavets

632 **The Gly460Trp Variant of α-Adducin Is Not Associated With Hypertension in White Anglo-Australians**
William Y.S. Wang, David J. Adams, Cheryl L. Glenn, and Brian J. Morris

637 **Deletion Polymorphism of the Angiotensin Converting Enzyme Gene Is Associated With an Increase in Left Ventricular Mass in Men With Type 2 Diabetes Mellitus**
Raymond O. Estacio, Barrett W. Jeffers, Edward P. Havranek, David Krick, Mary Raynolds, and Robert W. Schrier

643 **Moderate Dietary Salt Restriction Increases Vascular and Systemic Insulin Resistance**
Ross D. Feldman and Nancy D. Schmidt

648 **Na^+ and Mg^{2+} Contents in Smooth Muscle Cells in Spontaneously Hypertensive Rats**
Klaus Kisters, Ernst-Rudolf Krefting, Michael Barenbrock, Claus Spieker, and Karl Heinz Rahn

NUMBER 7, JULY 1999

CONSENSUS ROUNDTABLE

653 **Fenoldopam: A New Parenteral Antihypertensive: Consensus Roundtable on the Management of Perioperative Hypertension and Hypertensive Crises**
Suzanne Oparil, Chair, Solomon Aronson, G. Michael Deeb, Murray Epstein, Jerrold H. Levy, Robert R. Luther, Richard Prielipp, and Addison Taylor

ORIGINAL CONTRIBUTIONS

665 **Effects of the Administration of an Angiotensin-Converting Enzyme Inhibitor During the Acute Phase of Myocardial Infarction in Patients With Arterial Hypertension**
Claudio Borghi, Stefano Bacchelli, Daniela Degli Esposti, Angelo Bignamini, Bruno Magnani, and Ettore Ambrosioni, on behalf of the SMILE Study Investigators

673 **Effect of Hypertension and its Treatment on Lipid, Lipoprotein(a), Fibrinogen, and Bilirubin Levels in Patients Referred for Dyslipidemia**
John A. Papadakis, Emmanuel S. Ganotakis, Indera A. Jagroop, Dimitri P. Mikhailidis, and Anthony F. Winder

682 **A Weight Reduction and Weight Maintenance Program With Long-Lasting Improvement in Left Ventricular Mass and Blood Pressure**
Etsuro Himeno, Kenshi Nishino, Tetsuya Okazaki, Hiroki Nanri, and Masaharu Ikeda

691 **Comparison of Two Strategies for Intensifying Antihypertensive Treatment: Low-Dose Combination (Enalapril + Felodipine ER) Versus Increased Dose of Monotherapy (Enalapril)**
William J. Elliott, Rafael Montoro, David Smith, Mark Leibowitz, Clara Hwang, Alan H. Gradman, Margo Schleman, and Michael Klibaner, for the LEVEL (Lexxel vs *Enalapril) Study Group*

697 **Prevalence of the Angiotensin I Converting Enzyme Insertion/Deletion Polymorphism, Plasma Angiotensin Converting Enzyme Activity, and Left Ventricular Mass in a Normotensive Chilean Population**
Jorge E. Jalil, Ana María Piddo, Samuel Cordova, Gastón Chamorro, Sandra Braun, Roberto Jalil, Jeanette Vega, Liliana Jadue'P, Sergio Lavandero, and Patricia Lastra

705 **Chronic Captopril Administration Decreases Vasodilator Responses in Skeletal Muscle Arterioles**
Jefferson C. Frisbee, David S. Weber, and Julian H. Lombard

716 **Altered Angiotensin II-Induced Small Artery Contraction During the Development of Hypertension in Spontaneously Hypertensive Rats**
Dierk Endemann, Rhian M. Touyz, Jin-S. Li, Li-Yuan Deng, and Ernesto L. Schiffrin

724 **Different Effects of Antihypertensive Agents on Cardiac and Vascular Hypertrophy in the Transgenic Rat Line TGR(mRen2)27**
M. Julia Brosnan, Alison M. Devlin, James S. Clark, John J. Mullins, and Anna F. Dominiczak

732 **Arterial Structural Changes With Verapamil in Spontaneously Hypertensive Rats**
I. Koffi, M.E. Safar, C. Labat, P. Lacolley, A. Benetos, and J.J. Mourad

BRIEF COMMUNICATIONS

739 **Effect of Hematocrit on Blood Pressure Via Hyperviscosity**
Yıldırım Çınar, Gamze Demir, Mustafa Paç, and Ayşe Başak Çınar

744 **Masoprocol Lowers Blood Pressure in Rats With Fructose-Induced Hypertension**
Maya S. Gowri, Gerald M. Reaven, and Salman Azhar

NUMBER 8, PART 1, AUGUST 1999

ORIGINAL CONTRIBUTIONS

747 **Low Dietary Magnesium Is Associated With Insulin Resistance in a Sample of Young, Nondiabetic Black Americans**
Suzanne Humphries, Harvey Kushner, and Bonita Falkner

757 **Magnesium Supplementation Attenuates, But Does Not Prevent, Development of Hypertension in Spontaneously Hypertensive Rats**
R.M. Touyz and F.J. Milne

766 **Homocystine Levels in Hypertensive Patients With a History of Cardiac or Cerebral Atherothrombotic Events**
Y. Sharabi, R. Doolman, T. Rosenthal, E. Grossman, C. Rachima-Maoz, N. Nussinovitch, and B. Sela

772 **The Relationship of Serum Androgens and Ovulatory Status to Blood Pressure in Reproductive-Age Women**
Carma Ayala, Emil Steinberger, Anne Sweeney, William H. Mueller, Dorothy K. Waller, Robert Hardy, Steven M. Petak, Luis J. Rodriguez-Rigau, and Keith D. Smith

778 **Reduction of Risk of Pneumonia Associated With Use of Angiotensin I Converting Enzyme Inhibitors in Elderly Inpatients**
Kohya Okaishi, Shigeto Morimoto, Keisuke Fukuo, Tadaaki Niinobu, Shigeki Hata, Toshio Onishi, and Toshio Ogihara

784 **Effect of Aspirin on Blood Pressure in Hypertensive Patients Taking Enalapril or Losartan**
James J. Nawarskas, Raymond R. Townsend, Michael D. Cirigliano, and Sarah A. Spinler

790 **The Pandora Project: Results of the Pilot Study**
Ezio Degli Esposti, Patrizia Berto, Stefano Buda, Anna Maria Di Nardo, and Alessandra Sturani

797 **Matrix Study of Irbesartan With Hydrochlorothiazide in Mild-to-Moderate Hypertension**
M. Kochar, R. Guthrie, J. Triscari, K. Kassler-Taub, and R.A. Reeves

806 **Differential Effects of Morning and Evening Dosing of Nisoldipine ER on Circadian Blood Pressure and Heart Rate**
William B. White, George A. Mansoor, Thomas G. Pickering, Donald G. Vidt, Howard G. Hutchinson, Roger B. Johnson, and Robert Noveck

815 **Susceptibility to Apoptosis Measured by *MYC*, *BCL-2*, and *BAX* Expression in Arterioles and Capillaries of Adult Spontaneously Hypertensive Rats**
Francisco Vega, Angel Panizo, Javier Pardo-Mindán, and Javier Diez

821 **Inverse Relationship Between Potassium Intake and Coronary Artery Disease in the Cholesterol-Fed Rabbit**
Ge Ma, David B. Young, and Ben R. Clower

826 **Serial Changes in Cardiovascular and Renal Function of Rabbits Ingesting a High-Fat, High-Calorie Diet**
Vladan Antic, Aldo Tempini, and Jean-Pierre Montani

830 **Detection, Treatment, and Control of Adult Hypertension in Northwest Indiana**
William J. Elliot, Steven J. Toth, Alexander Stemer, and Jerry H. Cadwalander, for the Ispat Inland/United Steelworkers of America Health Care Network

835 **Modulation of Renal Blood Flow by Endogenous Endothelin-1 in Conscious Rabbits With Left Ventricular Dysfunction**
Rank Muders, Andreas Luchner, Erik B. Friedrich, Guntram Ickenstein, Günter A.J. Riegger, and Dietmar Elsner

839 **α-Tocopherol Increased Nitric Oxide Synthase Activity in Blood Vessels of Spontaneously Hypertensive Rats**
Mohammed Ali Newaz, N.N.A. Nawal, C.H. Rohaizan, N. Muslim, and A. Gapor

845 **Total Peripheral Conductance Mediates Antihypertensive Effect of Nonpeptide Mixed Endothelin Receptor Antagonist in Deoxycorticosterone Acetate-Salt Hypertensive Rats**
Ming Yu, Venkat Gopalakrishan, and J. Robert McNeill

EDITORIAL

849 **Potassium Intake and Blood Pressure**
Feng J. He and Graham A. MacGregor

852 ERRATA

NUMBER 8, PART 2, AUGUST 1999

63S **Introduction**
Franz H. Messerli, MD

65S **Overview of JNC VI: New Directions in the Management of Hypertension and Cardiovascular Risk**
Sheldon G. Sheps, MD

73S **Low-Dose Antihypertensive Combination Therapy: Its Rationale and Role in Cardiovascular Risk Management**
Joel M. Neutel, MD

80S **Benefits of Combination Angiotensin-Converting Enzyme Inhibitor and Calcium Antagonist Therapy for Diabetic Patients**
Geoffrey R. Sheinfeld, MD and George L. Bakris, MD

86S **Combinations in the Treatment of Hypertension: ACE Inhibitors and Calcium Antagonists**
Franz H. Messerli, MD

NUMBER 9, PART 1, SEPTEMBER 1999

ORIGINAL CONTRIBUTIONS

853 **Identification of a Polymorphic Glutamic Acid Stretch in the α_{2B}-Adrenergic Receptor and Lack of Linkage With Essential Hypertension**
Clinton T. Baldwin, Faina Schwartz, Jader Baima, Michael Burzstyn, Anita L. DeStefano, Irene Gavras, Diane E. Handy, Oscar Joost, Timothy Martel, Athanasios Manolis, Michael Nicolaou, Margaret Bresnahan, Lindsay Farrer, and Haralambos Gavras

858 **Angiotensin Converting Enzyme Gene Insertion/Deletion Polymorphism, Angiotensinogen Gene Polymorphisms, Family History of Hypertension, and Childhood Blood Pressure**
Leena Taittonen, Matti Uhari, Kimmo Kontula, Katariina Kainulainen, Helena Miettinen, Juha Turtinen, and Matti Nuutinen

867 **Involvement of Aldosterone in Left Ventricular Hypertrophy of Patients With End-Stage Renal Failure Treated With Hemodialysis**
Atsuhisa Sato, John W. Funder, and Takao Saruta

874 **Circadian Profile of Low-Frequency Oscillations in Blood Pressure and Heart Rate in Hypertension**
Reijo Takalo, Ilkka Korhonen, Silja Majahalme, Martti Tuomisto, and Väinö Turjanmaa

882 **Platelet-Derived Endothelial Cell Growth Factor Inhibits DNA Synthesis in Vascular Smooth Muscle Cells**
Dalia Somjen, Amat Jaffe, Esther Knoll, Fortune Kohen, Yehudit Amir-Zaltsman, and Naftali Stern

890 **Enhanced Monocyte Adherence to Thoracic Aortae From Rats With Two Forms of Experimental Hypertension**
Tomoko Asagami, Gerald M. Reaven, and Phillip S. Tsao

894 **Calcium and Magnesium in Drinking Water and the Risk of Death From Hypertension**
Chun-Yuh Yang and Hui-Fen Chiu

900 **Aging But Not Sodium Loading Significantly Attenuated Diurnal Change in Blood Pressure in Stroke-Prone Spontaneously Hypertensive Rats**
Bin Zhao, Katsuhiko Kohara, and Kunio Hiwada

906 **Prolonged Fenoldopam Infusions in Patients With Mild to Moderate Hypertension: Pharmacodynamic and Pharmocokinetic Effects**
Addison A. Taylor, Alexander M. Shepherd, William Polvino, Roberto Mangoo-Karim, Kevin Ballard, Sarat Sunthornyothin, Robert R. Luther, and James L. Pool

915 **Felodipine–Metoprolol Combination Tablet: A Valuable Option to Initiate Antihypertensive Therapy?**
Bernard Waeber, Jean-Marie Detry, Björn Dahlöf, Juan G. Puig, Torstein Gundersen, James Hosie, Wlodzimierz Januszewicz, Carl J. Lindström, Dieter Magometschnigg, Michel Safar, Paul Tanser, and Pavlos Toutouzas

921 **Relation of Plasma Brain and Atrial Natriuretic Peptides to Left Ventricular Geometric Patterns in Essential Hypertension**
Kotaro Yasumoto, Masanobu Takata, Hitoshi Ueno, Shin Tomita, Fumihiro Tomoda, and Hiroshi Inoue

925 **Antihypertensive Effect of the Combination of Fosinopril and HCTZ is Resistant to Interference by Nonsteroidal Antiinflammatory Drugs**
Vashu Thakur, M. Eileen Cook, and J. David Wallin

929 **Factors Related to Quality of Ambulatory Blood Pressure Monitoring in a Pediatric Population**
Empar Lurbe, Beatriz Cremades, Concepción Rodriguez, Maria Isabel Torro, Vincente Alvarez, and Josep Redon

REVIEW

934 **Lifestyle and Hypertension**
L. J. Beilin, I. B. Puddey, and V. Burke

LETTERS TO THE EDITOR

946 **Apolipoprotein E Genotype and the Blood Pressure Raising Effect of Alcohol**
Ian B. Puddey, Valentina Rakic, Simon B. Dimmitt, Valerie Burke, Lawrence J. Beilin, and Frank Van Bockxmeer

947 **Essential Hypertension: Polymorphonuclear Leukocyte Membrane Fluidity at Baseline and After Chemotactic Activation**
Gregorio Caimi, Rosalia Lo Presti, Baldassare Canino, Maria Montana, and Giovani Cerasola

948 **Is It Time to Regard Cigarette Smoking as a Risk Factor in the Development of Sustained Hypertension?**
Junichi Minami, Toshihiko Ishimitsu, and Hiroaki Matsuoka

949 **Apolipoprotein E, Alcohol, and Blood Pressure: Reply to Puddey et al**
Heikki Kauma, Markku J. Savolainen, and Y. Antero Kesäniemi

NUMBER 9, PART 2, SEPTEMBER 1999

91S **Introduction and Overview**
Joel M. Neutel

93S **Hypertension and Sudden Cardiac Death**
Franz H. Messerli

101S **Interrupting the Renin-Angiotensin System: The Role of Angiotensin-Converting Enzyme Inhibitors and Angiotensin II Receptor Antagonists in the Treatment of Hypertension**
Michael A. Weber

107S **Are Drugs That Block the Renin-Angiotensin System Effective and Safe in Patients With Renal Insufficiency?**
Matthew R. Weir

117S **The Renin-Angiotensin-Aldosterone System: A Specific Target for Hypertension Management**
Matthew R. Weir and Victor J. Dzau

127S **Is High Blood Pressure a Late Manifestation of the Hypertension Syndrome?**
Joel M. Neutel, David H.G. Smith, and Michael A. Weber

137S **Will Better-Tolerated Antihypertensive Agents Improve Blood Pressure Control? JNC VI Revisited**
Henry R. Black

143S **Are There Differences Among Angiotensin Receptor Blockers?**
Randall M. Zusman

NUMBER 10, PART 1, OCTOBER 1999

ORIGINAL CONTRIBUTIONS

951 **Barriers to Hypertension Care and Control in Young Urban Black Men**
Martha N. Hill, Lee R. Bone, Miyong T. Kim, Deborah J. Miller, Cheryl R. Dennison, and David M. Levine

959 **Prevalence, Awareness, Treatment, and Control of Hypertension in Greece: The Didima Study**
George S. Stergiou, Georgia C. Thomopoulou, Irini I. Skeva, and Theodore D. Mountokalakis

966 **White Coat Hypertension and Blood Pressure Variability**
Asbjørn Høegholm, Kjeld S. Kristensen, Lia E. Bang, and Pia H. Gustavsen

973 **Flow-Mediated Vasodilation and Distensibility in Relation to Intima-Media Thickness of Large Arteries in Mild Essential Hypertension**
Michael Barenbrock, Martin Hausberg, Markus Kosch, Sergey A. Golubev, Klaus Kisters, and Karl-Heinz Rahn

980 **Erythropoietin Impairs Endothelium-Dependent Vasorelaxation Through Cyclooxygenase-Dependent Mechanisms in Humans**
Yoshifumi Wada, Hidehiro Matsuoka, Osamu Amai, Keisuke Kohno, Seiya Okuda, and Tsutomu Imaizumi

988 **Role of the Kallikrein-Kinin System in the Maturation of Cardiovascular Phenotype**
Costanza Emanueli and Paolo Madeddu

1000 **Double-Blind Randomized Placebo-Controlled Study of Transdermal Estrogen Replacement Therapy on Hypertensive Postmenopausal Women**
Maria Grazia Modena, Rosella Molinari, Nicola Muia Jr, Annadele Castelli, Francesca Pala, and Rosario Rossi

1009 **Diastolic Function and Tachycardia in Hypertensive Children**
Mark C. Johnson, Lisa Bergersen, Anne Beck, Grace Dick, and Barbara R. Cole

1015 **Effect of Reflection of Arterial Pressure on Carotid Circulation in Essential Hypertension**
Katsuhiko Kohara, Yinong Jiang, Michiya Igase, and Kunio Hiwada

1021 **Effect of Chronic Angiotensin Converting Enzyme Inhibition on Angiotensin I and Bradykinin Metabolism in Rats**
Leonilda Stanziola, Lewis J. Greene, and Robson A.S. Santos

1030 **Comparisons of the Effect of Different Long-Acting Delivery Systems on the Pharmacokinetics and Pharmacodynamics of Diltiazem**
David H.G. Smith, Joel M. Neutel, and Michael A. Weber

BRIEF COMMUNICATIONS

1038 **Angiotensin Converting Enzyme Gene Polymorphism and Activity in Turkish Patients With Essential Hypertension**
Abdulkerim Bedir, Nurol Arik, Bahattin Adam, Kağan Kilinç, Tevfik Gümüş, and Ertuğrul Güner

1044 **Hormone Replacement Therapy in Postmenopausal Women With Essential Hypertension Increase Circulating Essential Levels of Bradykinin**
Hiroyuki Sumino, Shuichi Ichikawa, Tsugiyasu Kanda, Tetsuo Sakamaki, Tetsuya Nakamura, Kunio Sato, Isao Kobayashi, and Ryozo Nagai

LETTERS TO THE EDITOR

1048 **Left Ventricular Hypertrophy and Its Regression: The Prothrombic State in Hypertension May Be Involved in Its Pathophysiology and Altered by Therapy**
Charles G.C. Spencer and Gregory Y.H. Lip

1049 **Re: Wynckel et al's "Long-term follow-up of acute renal failure caused by angiotensin converting enzyme inhibitors"**
Ketut Suwitra, Jodi Sidartha, Wayan Sudhana, Gde Raka Widiana, Anwar Santosa, and I.G.N. Putra Gunadhi

HYPOTHESIS

1050 **Prevention of Stroke and Cancer: Could Angiotensin II Type 1 Receptor Antagonists Do Better Than Angiotensin II Converting Enzyme Inhibitors?**
Jean Michel Achard, Andre Pruna, Leonardo A. Fernandez, Carine Hottelart, Hakim Mazouz, Alain Rosa, Michel Andrejak, and Albert Fournier

NUMBER 10, PART 2, OCTOBER 1999

91S **Foreword**
N. Poulter

92S **Coronary Heart Disease is a Multifactorial Disease**
N. Poulter

96S **Blood Pressure, Cholesterol, and Common Causes of Death: A Review**
S. Lewington and S. MacMahon, on behalf of the Prospective Studies Collaboration

99S **The Health Economics of the Treatment of Hyperlipidemia and Hypertension**
J. McMurray

105S **The Essence of Effective Treatment and Compliance Is Simplicity**
L. R. Erhardt

NUMBER 11, PART 1, NOVEMBER 1999

ORIGINAL CONTRIBUTIONS

1055 **Alterations in Angiotensin II Release and Vascular Reactivity in Hypertensive Men: A Pilot Study**
Slobodan Gasic, Klaus Ratheiser, Oswald Wagner, Peter Nowotny, Heinrich Vierhapper, and Werner Waldhäusl

1063 **Different Platelet Aggregability During Mental Stress in Two Stages of Essential Hypertension**
Fumihiro Tomoda, Masanobu Takata, Satoshi Kagitani, Hiroyuki Kinuno, Kotaro Yasumoto, Shin Tomita, and Hiroshi Inoue

1071 **Effects of Angiotensin Converting Enzyme and Angiotensin II Receptor Inhibition on Impaired Fibrinolysis in Systemic Hypertension**
Yunus Erdem, Celalettin Usalan İbrahim C. Haznedaroğlu, Bülent Altun, Mustafa Arici, Ünal Yasavul, Çetin Turgan, and Sali Çağlar

1077 **Physiologic Tailoring of Therapy for Resistant Hypertension: 20 Years' Experience With Stimulated Renin Profiling**
J. David Spence

1084 **Determinants of Left Ventricular Mass in Untreated Mildly Hypertensive Subjects: Hospitalet Study in Mild Hypertension**
Pedro Armario, Raquel Hernández del Rey, Pilar Sánchez, Montserrat Martín-Baranera, Gerard Torres, Jordi Juliá, and Helios Pardell

1091 **Nitric Oxide in Cyclosporine A-induced Hypertension: Role of Protein Kinase C**
Gibson K. Oriji and Harry R. Keiser

1098 **Aging and Salt-Loading Modulate Blood Pressure QTLs in Rats**
Tomoji Mashimo, Toru Nabika, Chiho Matsumoto, Tomoko Tamada, Keita Ueno, Makoto Sawamura, Katsumi Ikeda, Norihiro Kato, Yasuo Nara, and Yukio Yamori

1105 **Differential Effects of Losartan and Doxazosin on Vascular Function in Senescent Spontaneously Hypertensive Rats**
Rosaura Maeso, Josefa Navarro-Cid, Slena Rodrigo, Luis Miguel Ruilope, Vicente Lahera, and Victoria Cachofeiro

1109 **Timed Inhibition of the Renin-Angiotensin System Suppresses the Rise in Blood Pressure Upon Awakening in Spontaneously Hypertensive Rats**
Jan Oosting, Harrie A. Struijker-Boudier, and Ben J. Janssen

1119 **Endothelin-1 Released by Vascular Smooth Muscle Cells Enhances Vascular Responsiveness of Rat Mesenteric Arterial Bed Exposed to High Perfusion Flow**
Domenico Russo, Roberto Minutolo, Carla Clienti, Luca De Nicola, Carmela Iodice, Francesco A. Savino, and Vittorio E. Andreucci

1124 **Chronic Local Cold Stress to the Soles Induces Hypertension in Rats**
Naohiro Kanayama, Selina Khatun, Hossain Belayet, Liping She, and Toshihiko Terao

BRIEF COMMUNICATIONS

1130 **Comparison of Losartan and Hydrochlorothiazide on Cognitive Function and Quality of Life in Hypertensive Patients**
Michele Adolfo Tedesco, Gennaro Ratti, Salvatore Mennella, Gianluca Manzo, Michela Grieco, Anna Carmela Rainone, Diana Iarussi, and Aldo Iacono

1135 **Prospective Evaluation of Autonomic Dysfunction in Aggressive Management of Diabetic Microangiopathy**
Larry A. Weinrauch, Frank J. Kennedy, Andrew Burger, Ray E. Gleason, Joanne Keough, and John A. D'Elia

1140 **Relation Between Dehydroepiandrosterone Sulfate and Blood Pressure Levels in a Population-Based Sample**
Heribert Schunkert, Hans-Werner Hense, Tilo Andus, Günter A.J. Riegger, and Rainer H. Straub

1144 **Nucleotide Sequence of the 5′-Flanking Region of the Type A Human Natriuretic Peptide Receptor Gene and Association Analysis Using a Novel Microsatellite in Essential Hypertension**
Tomohiro Nakayama, Masayoshi Soma, Yukie Takahashi, Duolikun Rehemudula, Mikano Sato, Jiro Uwabo, Yoichi Izumi, and Katsuo Kanmatsuse

REVIEW

1149 **Canadian Hypertension Society Guidelines for Ambulatory Blood Pressure Monitoring**
Martin G. Myers, R. Brian Haynes, and Simon W. Rabkin

LETTERS TO THE EDITOR

1158 **Comments on the Study of Zakopoulus et al**
Thomas G. Pickering and Kazuomi Kario

1158 **Reply to Pickering and Kario's Letter. Re: Isolated Clinic Hypertension Is Not an Innocent Phenomenon**
Stamatios Stamatelopoulos and Nikos Zakopoulus

1159 **G Protein β3 Subunit Gene Variant, Twenty-Four-Hour Blood Pressure, and Hypertensive Cerebrovascular Disease in a Japanese Population**
Kazuomi Kario, Mayuko Fujiwara, Yukari Sone, Kayoko Saiki, Satoshi Hoshide, Kazuyuki Shimada, Joseph E. Schwartz, and Masafumi Matsuo

EDITORIAL

1161 **ACE-Inhibitor Therapy and Nosocomial Pneumonia**
Robert C. Kaplan and Bruce M. Psaty

NUMBER 11, PART 2, NOVEMBER 1999

111S **Introduction**
Pierre L. Corvol

113S **Optimal Blood Pressure: How Low Should We Go?**
Henry R. Black

121S **Treating Multiple-Risk Hypertensive Populations**
Suzanne Oparil

131S **Current Antihypertensive Treatment: Can We Do Better?**
Giuseppe Mancia, Cristina Giannattasio, and Guido Grassi

139S **Emerging Treatments for Hypertension: Potential Role for Vasopeptidase Inhibition**
Michael Weber

NUMBER 12, PART 1, DECEMBER 1999

ORIGINAL CONTRIBUTIONS

1163 **Lack of Correlation Between Left Ventricular Mass and Diameter of Left Coronary Artery Main Trunk in Hypertensive Patients**
Cesare Cuspidi, Laura Lonati, Lorena Sampieri, Laura Valagussa, Iassen Michev, Gastone Leonetti, and Alberto Zanchetti

1169 **Reactive Oxygen Species in Essential Hypertension and Non–Insulin-Dependent Diabetes Mellitus**
Nelson N. Orie, Walter Zidek, and Martin Tepel

1175 **The Effect of Weight Loss Intervention on Antihypertensive Medication Requirements in the Hypertension Optimal Treatment (HOT) Study**
Daniel W. Jones, Margaret E. Miller, Marion R. Wofford, Douglas C. Anderson, Jr., Mary E. Cameron, Dianne L. Willoughby, Catherine T. Adair, and Nancy S. King

1181 **A Comparison of the Efficacy and Duration of Action of Candesartan Cilexetil and Losartan as Assessed by Clinic and Ambulatory Blood Pressure After a Missed Dose, in Truly Hypertensive Patients: A Placebo-Controlled, Forced Titration Study**
Yves Lacourcière and Roland Asmar for the Candesartan/Losartan study investigators

1188 **The Influence of Long-Term ACE Inhibitor Treatment on Circulatory Responses to Stress in Human Hypertension**
Thomas Kahan and Keith Eliasson

1195 **Reduced Sympathetic Inhibition in Salt-Sensitive Japanese Young Adults**
Eiji Miyajima and Yutaka Yamada

1201 **Assessment of Angiotensin II Receptor Blockade in Humans Using a Standardized Angiotensin II Receptor-Binding Assay**
Marc P. Maillard, Lucia Mazzolai, Véronique Daven, Catherine Centeno, Jürg Nussberger, Hans-R. Brunner, and Michel Burnier

1209 **Population-Based Study of the Relationship Among Muscle Morphology, Insulin Action, and Hypertension**
Ingrid Toft, Kaare H. Bønaa, Sigurd Lindal, Tore Julsrud Berg, and Trond Jenssen

1217 **Modification of Intracellular Calcium and Plasma Renin by Dietary Calcium in Men**
Victor Petrov and Paul Lijnen

1225 **Calcium-Mediated Mechanisms of Eicosapentaenoic Acid-Induced Relaxation in Hypertensive Rat Aorta**
Mary B. Engler, Yunn-Hwa Ma, and Marguerite M. Engler

1236 **Increased Function of the Voltage-Dependent Calcium Channels, Without Increase of Ca^{2+} Release From the Sarcoplasmic Reticulum in the Arterioles of Spontaneous Hypertensive Rats**
Tohru Arii, Mitsumasa Ohyanagi, Jun Shibuya, and Tadaaki Iwasaki

1243 **The Effects of Angiotensin II, Endothelin-1, and Protein Kinase C Inhibitor on DNA Synthesis and Intracellular Calcium Mobilization in Vascular Smooth Muscle Cells From Young Normotensive and Spontaneously Hypertensive Rats**
B. Rosen, J. Barg, and R. Zimlichman

BRIEF COMMUNICATIONS

1252 **Reduction in Arterial Distensibility in Hypertensive Patients as Evaluated by Ambulatory Measurement of the QKD Interval Is Correlated With Concentric Remodeling of the Left Ventricle**
Philippe Gosse, Véronique Jullien, Philippe Jarnier, Philippe Lemetayer, and Jacques Clementy

1256 **High Dietary Salt Enhances Acute Depressor Responses to Metformin**
Martin S. Muntzel, Benjamin Nyeduala, and Shean Barrett

1260 **Parathyroid Hypertensive Factor Secretion From Subcultured Spontaneously Hypertensive Rat Parathyroid Cells**
Christina G. Benishin, Richard Z. Lewanczuk, Jacqueline J. Shan, and Peter K.T. Pang

1264 **Administration Time–Dependent Effect of Nitrendipine on the Reduction of Cardiac Hypertrophy in Spontaneously Hypertensive Rats**
Tsuyoshi Shiga, Koh-ichi Sugimoto, and Akio Fujimura

EDITORIAL

1268 **Barriers to Blood Pressure Control**
Michael H. Alderman

1270 LIST OF REVIEWERS

1274 SUBJECT INDEX

1280 AUTHOR INDEX

1323 TABLE OF CONTENTS, VOLUME 12

SUPPLEMENT: FROM HYPERTENSION TO HEART DISEASE: INTERFERING WITH PROGRESSION*

149S **From Hypertension To Heart Disease: Interfering With Progression**
Joel M. Neutel

150S **Angiotensin II Receptor Blockade and End-Organ Protection**
Oliver Chung and Thomas Unger

157S **β-Blockers and Diuretics: To Use or Not to Use**
Franz H. Messerli and Ehud Grossman

164S **Hypertension Control: Multifactorial Contributions**
Joel M. Neutel and David H.G. Smith

170S **Diabetes and Hypertension: Blood Pressure Control and Consequences**
Matthew R. Weir

NUMBER 12, PART 3, DECEMBER 1999

179S **Introduction and Overview**
Joel M. Neutel

181S **Hypertension and Sudden Cardiac Death**
Franz H. Messerli

189S **Interrupting the Renin-Angiotensin System: The Role of Angiotensin-Converting Enzyme Inhibitors and Angiotensin II Receptor Antagonists in the Treatment of Hypertension**
Michael A. Weber

195S **Are Drugs That Block the Renin-Angiotensin System Effective and Safe in Patients With Renal Insufficiency?**
Matthew R. Weir

205S **The Renin-Angiotensin-Aldosterone System: A Specific Target for Hypertension Management**
Matthew R. Weir and Victor J. Drau

215S **Is High Blood Pressure a Late Manifestation of the Hypertension Syndrome?**
Joel M. Neutel, David H.G. Smith, and Michael A. Weber

225S **Will Better-Tolerated Antihypertensive Agents Improve Blood Pressure Control? JNC VI Revisited**
Henry R. Black

231S **Are There Differences Among Angiotensin Receptor Blockers?**
Randall M. Zusman

* Supported by an educational grant from Bristol-Myers Squibb Company